

34587-C-PCT-USA-I

SEQUENCE LISTING

<110> Fisher, Paul B.

<120> Reciprocal Subtraction Differential
Display

<130> 34587-C-PCT-USA-I

<140> To Be Assigned

<141> 2003-02-12

<150> US 09/644,460

<151> 2000-08-23

<150> PCT/US99/04323

<151> 1999-02-26

<150> US 09/197,889

<151> 1998-11-23

<150> US 09/185,115

<151> 1998-11-03

<150> US 09/032,684

<151> 1998-02-27

<160> 42

<170> FastSEQ for windows Version 4.0

<210> 1

<211> 371

<212> DNA

<213> rattus norvegicus

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<221> unsure

<222> 5, 93, 153, 199, 217, 218, 221, 247, 259, 260, 274, 333,
335, 358, 360

<223> c, t, a or g

<221> misc_feature

<222> (1)...(371)

<223> n = A,T,C or G

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attagcccag aaactgacca tcagactgtc aancaggtag cggtatggcc agttaattga

120

aataaacagc cacagcctat tttctaagtg gtnttcagaa agtggcaagt tggttaactaa

180

gatgttccag aagattcang acttgattga tgataannaa nctttgggtg ttgtcctgat

240

tgatgangta agcactcann ggtactcatt cttngtctgc attgcctctt gctattactg

300

cctgatccct ctcatattgg tcaactgtgc gcnanctctt ttctatggat cttttccnan

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360

ccacccgttt c

371

<210> 2

<211> 245

<212> DNA

<213> rattus norvegicus

<400> 2

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120

gggggtgtcc ctggagaaca ttacaggctt ccctaggtaa gtgtgcaggt caggagacgg

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catattcaat cagatggctg atagttctcc gtggttatgc accggctcca gcttgccctac

240

gtcac

245

<210> 3

<211> 178

<212> DNA

<213> rattus norvegicus

<220>

<221> unsure

<222> 140, 163

<223> c, t, a or g

<221> misc_feature

<222> (1)...(178)

<223> n = A,T,C or G

<400> 3

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actatctgca tcatcaagcg agggcttggt tcggcggcta tgtgcagaga cgagcagggc

120

gaggcactta aaagctgctn gatgaaaatc caccagaggag aantctgggc ctacgtca

178

<210> 4

<211> 191

<212> DNA

<213> rattus norvegicus

<400> 4

tgacgtaggc ccagacttct cctgggtgga ttttcatcca gcagctttta agtgcctcgc 60
cctgctcgtc tctgcacata gccgccgaca caagccctcg cttgatgatg cagatagtcc

120

atctgccttt ctctccccct gccctgctat gactgttgca ttaaattcat catgctgccca

180

aaaaaaaaaa a

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191

<210> 5
<211> 124
<212> DNA
<213> rattus norvegicus

<400> 5
gccataaata cactttatct cattcgaaat gcataatcac actgggagca ctccctttgg 60
agcactcctc tagcagcagg tccgaagtgc tccagcatcg tcagctggct ccaacaccta

120
cgtc

124

<210> 6
<211> 61
<212> DNA
<213> rattus norvegicus

<400> 6
tttttttttt tttggaaaca gaataaagtg ctttattctc tggctggctc tcctacgtca 60
c 61

<210> 7
<211> 216
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 145
<223> c, t, a or g

<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

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120
gtacttgctt attgtattag tttanatgct agcaccgcat gtgctctgca tattctgggt

180
ttattaaaat aaaaagttga actgcaaaaa aaaaaa

216

<210> 8
<211> 334
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 42, 107, 126
<223> c, t, a or g

<221> misc_feature
<222> (1)...(334)

<223> n = A,T,C or G

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ctttattatt attattatta ttattattat tataaataaa acatgtncct tcaattaggt

120

tacaanagta tttatctcca taacgcttct tcatacatcc ttagttttgg attaaagtac

180

catccacccc aactcaaact gtaaccccca gtaatcccct ctaacgtgga aatttctggt

240

ttaacaactc agttaactgc cccacaaaca gtgggaggcc gctcttgcat ggctatgcc

300

cgtaaccctt cactgcttca cttcttcgct ggct

334

<210> 9

<211> 136

<212> DNA

<213> rattus norvegicus

<400> 9

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ctggctggca ctgtactcag gccggaagcc cagctcgtcc cggttcttga caaagcaagt

120

tggatggtac aagcgg

136

<210> 10

<211> 316

<212> DNA

<213> rattus norvegicus

<400> 10

tgccgagctg ggtattgtga cggttgataa tggcggcatc atgttgccag gtaccgggta 60
agcagacctc agagcacagc ttattgtcca gtgctttcac gctcgcgacg tcaaagtc

120

tgttattgtc aactccatg cctagaaatg cgcattgtct ctggccatct tcttgacag

180

gggatctgtc ctcttctctc atgatcatc ttccctctgc atcctgctct ccagctggaa

240

ggccagcaaa attgctgtct ggggactctg ctggggctct ctctcttct gaaggggccc

300

tgctagcagc tcggca

316

<210> 11

<211> 337

<212> DNA

<213> rattus norvegicus

<220>

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<221> unsure
<222> 254, 255, 256, 305, 318
<223> c, t, a or g

<221> misc_feature
<222> (1)...(337)
<223> n = A,T,C or G

<400> 11
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tgagtctcac gtagccgagt ttaatatctg tgctatttac taaagtatct gccaccaa

120
tgtaccaact catagtttta tatgaatggt gatgagtctg tatcataaat agaattgttg

180
atacatcctt aatttgtgca atattgtatg aagaagattg ttatcaatta aaaccacgcc

240
tctttatgat cctnnnaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa

300
aaccncctca aatccatngg ttctaaccga aaaccct

337

<210> 12
<211> 307
<212> DNA
<213> rattus norvegicus

<400> 12
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aacctgagaa taagtcacca gctcttgaca gtaaacatgg gccctatcaa attatattag

120
actcctcagt gtcccgccat gtggccttgc accaaatcaa ttagtttgag ggccaaaatc

180
ctgttgggtt tcaaataaag tgcagggtca taaggagggg gagggactca attcatggga

240
acatttttac ctgttcaaat agataaactg aattgcccta tctgtgggtca cctggatcca

300
agaccct

307

<210> 13
<211> 296
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 59, 101, 110, 122, 131, 133, 148, 189, 191, 198
<223> c, t, a or g

<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

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<400> 13
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gaaataaaca aacacagctt attatttggg ggaacattaa nttctataa tgaacacaaa

120
anaaaattaa nanttaatgg gggggtanaa gggactttga atctatctgg tatcatgaca

180
ttgaagcana nacctgantg accagaaaga gagagagaga gagagagaga gagagagaga

240
gagaggtttc atatgagcta gtgttacagg ctttattagt ctattagtca gggacc

296

<210> 14
<211> 319
<212> DNA
<213> rattus norvegicus

<400> 14
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tctgaaagcg ggcttcacaa aaactactgc gccacccgac tcgctgcggc atcgcccggg

120
ggcgagtacc gtatgcctt tcctgggtgca gaagaagtgt ttacaggagg cggtcattta

180
ccgcaatctg attctgtttt ttattctccc tggcgggtga tcgcgatcgg cagtttgaaa

240
acgatcgttg aatccacgct cgggaatgat gtggcttcgc cgccaacgct tactgacatt

300
tcatttgtac agcccgatt

319

<210> 15
<211> 287
<212> DNA
<213> rattus norvegicus

<400> 15
gccgagctgt gtaaaacat ctatcctctg gcagatctac ttgccaggcc actcccaggg 60
ggggtagacc ctctaaagct tgagatttat cttacagatg aagacttcga gtttgactc

120
gacatgacca gagatgaatt caacgcactg cccacctgga agcaaatgaa cctgaagaaa

180
gcgaaaggcc tgttctgagg gtgagatgac agccacagag aggtcactgc cactagacca

240
gaaagtggat ggagatatat atttggactg gtgttttttt ctgtcag

287

<210> 16
<211> 344
<212> DNA
<213> rattus norvegicus

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<220>
 <221> unsure
 <222> 208, 269, 337
 <223> c, t, a or g

<221> misc_feature
 <222> (1)...(344)
 <223> n = A,T,C or G

<400> 16
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120
 gtgactcggc agtctctgca gaaggccgta cagcagtcca tgctgtcata gctgtagtca

180
 gcctagactt ctgcccactg accttttngg gcactgagaa cacatccacg ctctgtctgt

240
 atctagttct ggcttctgct gtgtgctang cccagctct gaggagtaac agctgatccc

300
 aaaggtccaa gccaaccttc ttacccctca gccccancc cgat

344

<210> 17
 <211> 300
 <212> DNA
 <213> rattus norvegicus

<400> 17
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 accccagcag gaagaagact gggcgcagtc tagagttcct agtcaagagt aggaagggtt

120
 ctgttatacc catcatagaa cgagagaggg ggctcaatag atcatcccct ttgtctctcc

180
 acggggcttc ttgagcttct caaagttctt caggatgatg tcatataaca cagcataagc

240
 gttacggatc tccatgacca tcagccggat ctcttggtat tccgcctcgt ccagctcggc

300

<210> 18
 <211> 461
 <212> DNA
 <213> rattus norvegicus

<220>
 <221> unsure
 <222> 3, 161, 181, 190, 459
 <223> c, t, a or g

<221> misc_feature
 <222> (1)...(461)
 <223> n = A,T,C or G

<400> 18

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aattaaagaa cttttaagca gatgttttg tgcaactaat agaaaagata aaggcagcct

120
gacatgcatg cactgcctca gtgaccagta aagtcacatg nccttgggac gtcagcttag

180
ntttatcacn gtgtcccagg ggtgcttgtc aaagagatat tctgccatgc cagattcagg

240
ggctcccatc ttgcgtaagt tggtcacgtg gtcacccagt tctttaatgg atttcacctg

300
ctcattcagg taatgcgtct caatgaagtc acataagtgg ggatcattct tgtcagtagc

360
cagtttgtga agttccagta gtgactgatt cacactcttt tccaagtga gtgcacactc

420
cattgcattc agcccgctct cccagtcac acggtcacnt a

461

<210> 19
<211> 280
<212> DNA
<213> rattus norvegicus

<400> 19
tgacgtaggg ccgagagcaa caagcacaga actccttctc cagtttcacc ctgatgaagt 60
tgaggcactc ttctgcactg ggagggggcca gcctgggggc caggcacatt ggacaccacc

120
ttcccatgga ctacagcgtc aatgccattg ctttctattc ctataccttc taggggctgc

180
ccctcttccc attcagccaa cactgagtgt tgggagattt ctctttttta aaaacacatg

240
agaaaataaa tgcactttac tccctcccca aaaaaaaaaa

280

<210> 20
<211> 177
<212> DNA
<213> rattus norvegicus

<400> 20
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gtctctgcc cacttgacac tccgtcaaag tgagaagcga actaaagacc aactgcggtg

120
gaaaatatta tgtttatgta ataaaaaaaa atcatgtaac tgcaaaaaaaaa aaaaaaa

177

<210> 21
<211> 633
<212> DNA
<213> rattus norvegicus

<220>

34587-C-PCT-USA-I

<221> unsure
 <222> 449, 476, 478, 520, 526, 535, 570, 573, 581, 615, 619, 628
 <223> c, t, a or g

<221> misc_feature
 <222> (1)...(633)
 <223> n = A,T,C or G

<400> 21
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 atactctttg gataagaacc ccggccttgt taccaggtac cggagtgagc tgaaaaattt

120
 accgtcgaaa tgggtgatgt cctggaaaaa atggttcacc agctgccagg cagattcttt

180
 gggttccaca ttttcctgcc cacagatgtg gcagaagcgg tcaagtaatg cagcattaca

240
 attgaggcag atcttttctt ttctttcctt ggagtggctc aaccagcgat tttggttaaa

300
 aataatcaaa aaagcgacgg caaaactttt gttatattcc cgcctgtggc atttgaactg

360
 tgcccggcaa ccgaataact tttaattttg aaaataaaat gcatactaga tttttagcgg

420
 ttgcctcctg gccattgctt caggcgccng cacagcgtca gccagtttt accacnanga

480
 atatcctaag cgttgaaaca gggcacagcc gaaaaaaacn ctggcnacaa aaaaatccg

540
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600
 aatcgccaaa atacncgana tcaaactntc caa

633

<210> 22
 <211> 213
 <212> DNA
 <213> rattus norvegicus

<400> 22
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 tagaagtaat aagaacttca caagtagaac aacagagtta attgacctt atcctaaga

120
 gttaccagag aattattaaa aaactaaaga acaatcaaag cctggtcctg tgccaccacc

180
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213

<210> 23
 <211> 679
 <212> DNA
 <213> rattus norvegicus

<220>
 <221> unsure
 <222> 5, 11, 12, 13, 16, 18, 21, 23, 30, 36, 40, 41, 48, 50, 53,
 55, 56, 59, 72, 91, 92, 103, 106, 120, 123, 129, 133, 136
 <223> c, t, a or g

 <221> unsure
 <222> 138, 143, 153, 155, 157, 165, 168, 171, 175, 178, 180, 181,
 182, 194, 200, 205, 207, 210, 213, 214, 225, 232, 244, 274,
 <223> c, t, a or g

 <221> unsure
 <222> 281, 285, 294, 299, 313, 349, 353, 358, 360, 374, 386, 388,
 411, 414, 415, 452, 482, 487, 497, 499, 513, 540, 542, 556,
 <223> c, t, a or g

 <221> unsure
 <222> 558, 559, 563, 597, 608, 621, 647, 661, 662, 671, 675
 <223> c, t, a or g

 <221> misc_feature
 <222> (1)...(679)
 <223> n = A,T,C or G

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 120
 tcnctcctnc agnctntncg tgnctctcct gtncntncac tgccncanaa nggangcncn
 180
 nnctcctatc tgnntacagn aaacntngcn ctntctctaa gtcnccccac tntgtggaaa
 240
 ggcnatgtgt gcgtgcctct cccctatcac ggcngtttgc naaangggga tgnctgcnc
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 360
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 420
 tctttaaatg gtggctaacg gcgcttccta gnataaacac tattggtccc cccctctgca
 480
 gnaccntta cttccgnana aaaattgttg tcntgatccg cgacaaccac accgtctgtn
 540
 gnttttagtt gcaacncna tcnctccaaa aaagtttcag aaatcttcat tttccnnggt
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 660
 nntccaaaag nctancgat
 679

 <210> 24
 <211> 1150
 <212> DNA

<213> rattus norvegicus

<400> 24

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120

caaatcactg gctgattggc acaggtacct gtgtggagag gatcaatgag atggtggaca

180

gggctaaacg gaaggctgga gtggatcctc tggtagccct tcgaagcctg ggcttgtccc

240

tgagtgggtg ggagcaggag gatgcagtga ggctcctgat ggaggagttg agggaccgat

300

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360

ctacaccgga tgggtgggatt gtgctcatct ctggaacagg ctccaactgt aggcttatca

420

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480

cagcctactg gattgcacac caagctgtga aaattgtgtt tgactccatt gacaacctgg

540

aagcagctcc tcatgatatt ggccatgtca agcaggccat gttcaactac ttccagggtc

600

cagatcggct aggaatcctc actcacttgt atagggactt tgataagtcc aagtttgctg

660

gattttgtca gaaaattgca gaaggtgcac agcaggggaga ccctctttcc aggttcatct

720

tcagaaaggc tggggagatg ctgggcagac acgttggtggc agtattgcca gagattgacc

780

cagttttgtt ccaaggggag cttggcctcc ccattctgtg tgtgggctca gtgtggaaga

840

gctgggagct actgaaggaa ggctttctcc tggcactgac gcagggccga gagcaacagg

900

cacagaactc cttctccagt ttcaccctga tgaagttgag gcactcttct gcactgggag

960

gggccagcct gggggccagg cacattggac accaccttcc catggactac agcgtcaatg

1020

ccattgcctt ctattcctat accttctagg ggctgcccct cttcccatc agccaacact

1080

gagtgttggg agatttctct tttttaaaaa cacatgagaa aataaatgca ctttactccc

1140

tccccaaaaa

1150

<210> 25

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<211> 348
<212> PRT
<213> rattus norvegicus

<400> 25

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Ala Glu Ala Asp Gly Leu Ser Thr Asn His Trp Leu Ile Gly Thr Gly
 35      40      45
Thr Cys Val Glu Arg Ile Asn Glu Met Val Asp Arg Ala Lys Arg Lys
 50      55      60
Ala Gly Val Asp Pro Leu Val Pro Leu Arg Ser Leu Gly Leu Ser Leu
 65      70      75
Ser Gly Gly Glu Gln Glu Asp Ala Val Arg Leu Leu Met Glu Glu Leu
 85      90      95
Arg Asp Arg Phe Pro Tyr Leu Ser Glu Ser Tyr Phe Ile Thr Thr Asp
100      105      110
Ala Ala Gly Ser Ile Ala Thr Ala Thr Pro Asp Gly Gly Ile Val Leu
115      120      125
Ile Ser Gly Thr Gly Ser Asn Cys Arg Leu Ile Asn Pro Asp Gly Ser
130      135      140
Glu Ser Gly Cys Gly Gly Trp Gly His Met Met Gly Asp Glu Gly Ser
145      150      155
Ala Tyr Trp Ile Ala His Gln Ala Val Lys Ile Val Phe Asp Ser Ile
165      170      175
Asp Asn Leu Glu Ala Ala Pro His Asp Ile Gly His Val Lys Gln Ala
180      185      190
Met Phe Asn Tyr Phe Gln Val Pro Asp Arg Leu Gly Ile Leu Thr His
195      200      205
Leu Tyr Arg Asp Phe Asp Lys Ser Lys Phe Ala Gly Phe Cys Gln Lys
210      215      220
Ile Ala Glu Gly Ala Gln Gln Gly Asp Pro Leu Ser Arg Phe Ile Phe
225      230      235
Arg Lys Ala Gly Glu Met Leu Gly Arg His Val Val Ala Val Leu Pro
245      250      255
Glu Ile Asp Pro Val Leu Phe Gln Gly Glu Leu Gly Leu Pro Ile Leu
260      265      270
Cys Val Gly Ser Val Trp Lys Ser Trp Glu Leu Leu Lys Glu Gly Phe
275      280      285
Leu Leu Ala Leu Thr Gln Gly Arg Glu Gln Gln Ala Gln Asn Ser Phe
290      295      300
Ser Ser Phe Thr Leu Met Lys Leu Arg His Ser Ser Ala Leu Gly Gly
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325      330      335
Ser Val Asn Ala Ile Ala Phe Tyr Ser Tyr Thr Phe
340      345

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<210> 26
<211> 800
<212> DNA
<213> rattus norvegicus

<400> 26

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120

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cgcggcgagc agctcttcag tgaagaagga agcaatcgga gggtcagcaa tgaacgtgga

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180
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240
gaaactgagt gtgaagtttg gggtcctctt ccaagacgac agatgtgcca atctctttga
300
aaccgttggt gggaactctg aaagcccgca aaacgaagga agattgttac gtacgcagaa
360
gagctgcttt tgcaagggtg tcatgatgat gttgacattg tattgctgca agattaatgt
420
ggtttgcaga tctgggggta tctggtaaac tggaataatt aagttaaagg acaaactga
480
agttccttat gtatTTTTat agaccttTgt aaacaaaagg ggacttgTtg agaagtcctg
540
ttttataacc ttggagcaaa acattacaat gtaaaaaataa acaaacctg ttatTTTTtt
600
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720
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gtaaaaaaaa aaaaaaaaaa

800

<210> 27
<211> 92
<212> PRT
<213> rattus norvegicus

<400> 27
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20 25 30
Leu Phe Gln Asp Asp Arg Cys Ala Asn Leu Phe Glu Thr Val Gly Gly
35 40 45
Asn Ser Glu Ser Pro Gln Asn Glu Gly Arg Leu Leu Arg Thr Gln Lys
50 55 60
Ser Cys Phe Cys Lys Val Phe Met Met Met Leu Thr Leu Tyr Cys Cys
65 70 75 80
Lys Ile Asn Val Val Cys Arg Ser Gly Gly Ile Trp
85 90

<210> 28
<211> 1538
<212> DNA
<213> rattus norvegicus

<220>
<221> unsure
<222> 652, 1523

<223> c, t, a or g

<221> misc_feature

<222> (1)...(1538)

<223> n = A,T,C or G

<400> 28

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120

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180

caagcagctt taaccccatc atctcttccc agacttcgga ctctgaggaa cattcatcct

240

cagagaacat ccctgcgggc tatgaagtgg tgtctctcct ggaggccctc aatgggcccc

300

tcacctcatc cccagcgggtg cctccccctc acgttcttgg agatggccac ctctcaggaa

360

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420

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600

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660

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720

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780

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840

ctagcagggc cccttcagaa gaggaggaga ccccagcaga gtccccagac agcaattttg

900

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960

gatccccctgt gcaagaagat ggccagagga catgcgcatt tctaggcatg gagtgtgaca

1020

ataacaatga ctttgacgtc gcgagcgtga aagcactgga caataagctg tgctctgagg

1080

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1140

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1200
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1538

<210> 29
<211> 404
<212> PRT
<213> rattus norvegicus

<220>
<223> unknown amino acid

<221> VARIANT
<222> (1)...(404)
<223> Xaa = Any Amino Acid

<400> 29
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20 25 30
Asn Asn Cys Pro Ile Cys Arg Leu Pro Phe Arg Ala Leu Leu Gln Ile
35 40 45
Arg Ala Met Arg Lys Lys Leu Gly Pro Leu Ser Pro Ser Ser Phe Asn
50 55 60
Pro Ile Ile Ser Ser Gln Thr Ser Asp Ser Glu Glu His Ser Ser Ser
65 70 75 80
Glu Asn Ile Pro Ala Gly Tyr Glu Val Val Ser Leu Leu Glu Ala Leu
85 90 95
Asn Gly Pro Leu Thr Ser Ser Pro Ala Val Pro Pro Leu His Val Leu
100 105 110
Gly Asp Gly His Leu Ser Gly Met Leu Pro Ser Tyr Gly Ser Asp Gly
115 120 125
His Leu Pro Pro Val Arg Thr Leu Ser Pro Leu Asp His Leu Ser Asp
130 135 140
Cys Asn Ser Gln Gly Leu Lys Leu Asn Lys Ser Leu Ser Lys Ser Ile
145 150 155 160
Ser Gln Asn Ser Ser Val Leu His Glu Glu Glu Asp Glu Arg Ser Cys
165 170 175
Ser Glu Ser Asp Thr Gln Leu Ser Gln Arg Leu Ser Ala Gln His Pro
180 185 190
Glu Glu Gly Pro Asp Val Thr Pro Glu Ser Glu Asn Leu Thr Leu Ser
195 200 205
Ser Ser Gly Ala Val Asp Gln Ser Xaa Cys Thr Gly Thr Pro Leu Ser
210 215 220
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<211> 922
<212> DNA
<213> rattus norvegicus
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120
ccgctgcagc ctcttgacac ggtgatccgg gcgggccccg caggaatttt atccccctcac

180
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240
ctgatgcaac taagggcgac gacttactcc cggcagggac tgaggactac attcatataa

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420
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540
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600
ctgcctcggg agatgattct ttacagtaaa cgacagactt tgcgtttatt aaatcattca

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720
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780
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922

<210> 31
<211> 113
<212> PRT
<213> rattus norvegicus

<400> 31
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Thr Lys Gly Asp Asp Leu Leu Pro Ala Gly Thr Glu Asp Tyr Ile His
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Ile Arg Ile Gln Gln Arg Asn Gly Arg Lys Thr Leu Thr Thr Val Gln
35 40 45
Gly Ile Ala Asp Asp Tyr Asp Lys Lys Lys Leu Val Lys Ala Phe Lys
50 55 60
Lys Lys Phe Ala Cys Asn Gly Thr Val Ile Glu His Pro Glu Tyr Gly
65 70 75 80
Glu Val Ile Gln Leu Gln Gly Asp Gln Arg Lys Asn Ile Cys Gln Phe
85 90 95
Leu Leu Glu Val Gly Ile Val Lys Glu Gln Leu Lys Val His Gly
100 105 110
Phe

<210> 32
<211> 1856
<212> DNA
<213> rattus norvegicus

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240
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300
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360
caacatcaag ggaacctgtg gctgcggtga aagctttaac gtctgaaagc tgaggactgc

420
aaactccagg agagctgggt ctgccttgga gcacaccgaa gaaatcatgt gatgtcccgt
480
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1680

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1740

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1856

<210> 33

<211> 134

<212> PRT

<213> rattus norvegicus

<400> 33

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		20					25					30			
Thr	Pro	Ser	Ala	Val	Asn	Lys	Ile	Lys	Gln	Leu	Leu	Lys	Asp	Lys	Pro
		35				40					45				
Glu	His	Val	Gly	Leu	Lys	Val	Gly	Val	Arg	Thr	Arg	Gly	Cys	Asn	Gly
	50				55				60						
Leu	Ser	Tyr	Ser	Leu	Glu	Tyr	Thr	Lys	Thr	Lys	Gly	Asp	Ala	Asp	Glu
65					70				75					80	
Glu	Val	Ile	Gln	Asp	Gly	Val	Arg	Val	Phe	Ile	Glu	Lys	Lys	Ala	Gln
			85					90						95	
Leu	Thr	Leu	Leu	Gly	Thr	Glu	Met	Asp	Tyr	Val	Glu	Asp	Lys	Leu	Ser
		100						105					110		
Ser	Glu	Phe	Val	Phe	Asn	Asn	Pro	Asn	Ile	Lys	Gly	Thr	Cys	Gly	Cys
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<210> 34

<211> 1925

<212> DNA

<213> rattus norvegicus

<400> 34

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120

gacccgagac gtagtaagta caacttggca aatacatgtt agaggagcag ggaccacgct

180

catcaaaatc catcattggg ctaccttggg ctctccgcag tagccgagct taacatgatt

240

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420

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600
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660
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720
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1320
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1920
gccaa

1925

<210> 35
<211> 1195
<212> DNA
<213> rattus norvegicus

<400> 35
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120
catagcttta atgtctgttt tagctgcaaa actcattgtt cactttctgt tagaaaatct

180
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240
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300
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480
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660
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720
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780
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900
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1020
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1080
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1195

<210> 36
<211> 1149
<212> DNA
<213> rattus norvegicus

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420
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480
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720
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780
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840

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1149

<210> 37

<211> 717

<212> PRT

<213> rattus norvegicus

<400> 37

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			20					25					30		
Cys	Asn	Thr	Cys	Cys	Asn	Cys	Gly	Ala	Thr	Cys	Asn	Cys	Ala	Gly	Ala
		35					40					45			
Thr	Ala	Cys	Asn	Asn	Gly	Cys	Asn	Cys	Ala	Cys	Cys	Gly	Gly	Asn	Asn
	50					55					60				
Asn	Thr	Asn	Thr	Cys	Asn	Gly	Asn	Gly	Gly	Thr	Asn	Ala	Thr	Cys	Asn
65					70					75					80
Thr	Cys	Cys	Asn	Cys	Cys	Ala	Thr	Cys	Thr	Cys	Thr	Cys	Asn	Thr	Cys
			85						90					95	
Cys	Cys	Cys	Gly	Ala	Cys	Asn	Thr	Gly	Cys	Ala	Cys	Thr	Cys	Cys	Gly
			100					105					110		
Gly	Gly	Thr	Asn	Thr	Asn	Asn	Thr	Ala	Cys	Ala	Cys	Asn	Gly	Gly	Ala
		115					120					125			
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	130					135					140				
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145					150					155					160
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			165					170						175	
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			180					185					190		
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		195					200					205			
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	210					215					220				
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225					230					235					240
Asn	Asn	Cys	Thr	Cys	Ala	Gly	Thr	Gly	Thr	Asn	Cys	Ala	Cys	Cys	Thr
				245					250					255	
Thr	Cys	Cys	Ala	Cys	Thr	Asn	Cys	Asn	Gly	Ala	Ala	Asn	Cys	Thr	Asn
			260					265					270		
Asn	Thr	Cys	Gly	Cys	Thr	Asn	Cys	Asn	Cys	Cys	Asn	Cys	Asn	Gly	Thr
		275					280					285			
Thr	Gly	Gly	Gly	Ala	Ala	Ala	Gly	Gly	Cys	Gly	Ala	Asn	Cys	Asn	Gly
	290					295					300				

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Thr	Asn	Cys	Cys	Gly	Gly	Cys	Asn	Ala	Cys	Ala	Thr	Gly	Cys	Cys	Gly
305					310					315					320
Thr	Thr	Thr	Asn	Cys	Gly	Asn	Cys	Asn	Thr	Cys	Thr	Gly	Asn	Asn	Cys
				325					330					335	
Ala	Cys	Asn	Thr	Gly	Gly	Gly	Gly	Ala	Thr	Cys	Thr	Asn	Cys	Thr	Asn
			340					345					350		
Cys	Ala	Ala	Asn	Gly	Asn	Ala	Ala	Thr	Cys	Ala	Ala	Thr	Thr	Asn	Gly
		355					360					365			
Asn	Gly	Thr	Ala	Ala	Cys	Cys	Cys	Ala	Cys	Gly	Gly	Thr	Thr	Thr	Asn
	370					375					380				
Cys	Asn	Cys	Ala	Ala	Thr	Cys	Ala	Cys	Thr	Ala	Cys	Thr	Thr	Cys	Thr
385					390					395					400
Cys	Ala	Asn	Asn	Cys	Asn	Ala	Asn	Gly	Gly	Cys	Cys	Asn	Thr	Thr	Gly
				405					410						415
Ala	Ala	Asn	Thr	Gly	Thr	Thr	Ala	Thr	Cys	Cys	Cys	Ala	Cys	Cys	Ala
			420					425					430		
Cys	Cys	Ala	Asn	Gly	Gly	Gly	Gly	Cys	Asn	Ala	Asn	Thr	Cys	Gly	Gly
		435					440					445			
Gly	Ala	Cys	Cys	Thr	Asn	Ala	Cys	Ala	Ala	Thr	Thr	Cys	Ala	Thr	Cys
	450					455					460				
Cys	Thr	Cys	Ala	Gly	Cys	Cys	Gly	Gly	Cys	Cys	Cys	Cys	Ala	Gly	Asn
465					470					475					480
Cys	Thr	Thr	Ala	Ala	Ala	Ala	Ala	Ala	Thr	Thr	Cys	Ala	Ala	Ala	Gly
			485						490				495		
Gly	Asn	Cys	Asn	Cys	Thr	Thr	Gly	Cys	Cys	Cys	Gly	Cys	Asn	Thr	Thr
			500					505					510		
Asn	Thr	Thr	Asn	Cys	Cys	Thr	Thr	Ala	Gly	Cys	Cys	Cys	Gly	Cys	Cys
		515					520					525			
Asn	Cys	Cys	Asn	Gly	Ala	Cys	Ala	Ala	Cys	Ala	Asn	Cys	Cys	Asn	Ala
	530					535					540				
Asn	Asn	Ala	Ala	Cys	Ala	Ala	Cys	Cys	Cys	Cys	Cys	Asn	Asn	Thr	Cys
545					550					555					560
Thr	Thr	Ala	Asn	Gly	Thr	Thr	Gly	Cys	Asn	Asn	Ala	Asn	Cys	Cys	Cys
				565					570					575	
Ala	Cys	Ala	Gly	Gly	Ala	Asn	Asn	Thr	Thr	Gly	Asn	Asn	Ala	Thr	Ala
			580					585					590		
Cys	Cys	Gly	Gly	Gly	Thr	Thr	Thr	Cys	Cys	Cys	Cys	Asn	Gly	Ala	Ala
		595					600					605			
Ala	Cys	Thr	Asn	Cys	Thr	Cys	Ala	Ala	Asn	Gly	Cys	Cys	Asn	Cys	Cys
	610					615					620				
Gly	Thr	Thr	Cys	Cys	Ala	Ala	Cys	Cys	Cys	Cys	Cys	Gly	Thr	Thr	Ala
625					630					635					640
Cys	Gly	Ala	Ala	Ala	Cys	Cys	Gly	Thr	Asn	Cys	Cys	Cys	Asn	Thr	Thr
				645					650					655	
Thr	Cys	Cys	Thr	Thr	Cys	Cys	Gly	Ala	Gly	Asn	Thr	Thr	Gly	Cys	Cys
			660					665					670		
Thr	Ala	Thr	Thr	Ala	Ala	Asn	Asn	Cys	Cys	Cys	Cys	Cys	Asn	Ala	Ala
		675					680					685			
Gly	Thr	Thr	Cys	Thr	Asn	Cys	Thr	Thr	Cys	Gly	Thr	Thr	Asn	Gly	Asn
	690					695					700				
Thr	Thr	Cys	Cys	Thr	Cys	Cys	Gly	Ala	Ala	Ala	Asn	Gly			
705					710					715					

<210> 38

<211> 235

<212> DNA

<213> rattus norvegicus

<220>

<221> unsure

<222> 10, 11, 12, 13, 18, 20, 29, 30, 31, 39, 40, 46, 47, 49,
58, 71, 84, 90, 103, 111, 123, 126, 139, 141, 165, 185, 192,

199

<223> c, t, a or g

<221> unsure

<222> 204, 211, 213, 214, 228

<223> c, t, a or g

<221> misc_feature

<222> (1)...(235)

<223> n = A,T,C or G

<400> 38

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 taatctacac nggagtctta agtngacaan cccacactgc ganggtcaag nggatcacca

120

tcnccnctc ccaagcttnt ncattgatgc tctctctgtt ccgtncctg ccgctacaca

180

tggangctct tntctcttnt ctntcttac nanncaaaca ttgccctntc tcata

235

<210> 39

<211> 328

<212> DNA

<213> rattus norvegicus

<220>

<221> unsure

<222> 6, 11, 12, 28, 37, 40, 50, 68, 74, 86, 89, 93, 101, 107,
117, 145, 159, 163, 164, 169, 172, 178, 179, 184, 186, 191

<223> c, t, a or g

<221> unsure

<222> 192, 203, 204, 205, 215, 218, 219, 228, 229, 232, 233,
235, 237, 239, 245, 247, 248, 250, 252, 254, 266, 274, 279

<223> c, t, a or g

<221> unsure

<222> 284, 288, 290, 300, 304, 312, 317, 322

<223> c, t, a or g

<221> misc_feature

<222> (1)...(328)

<223> n = A,T,C or G

<400> 39

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 tttttgnaa aaangggggg ggaaanaanc cgnntttccc naaaacngg gggaacnggc

120

cgggggggga aaaaaaaggg ttacnaaggg aaacctttna aannggaang gntttgcnn

180

cctntngaaa nntttgcccc ccnnnaggaa tccnnggna aaccaannc cnnncncng

240

ggggncnntn cnangggacc ccaacncggg ccnaactng gggnaaanan gggcaaaacn

300

ggtncccggt gnaaaanggt anccccctc

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328

<210> 40
 <211> 196
 <212> DNA
 <213> rattus norvegicus

<400> 40
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 aagatcccaa acccaaaagc cacattgtta attagccttt ttattgtgtt tttttttttt

120
 tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt

180
 ttttggcagc tcggca

196

<210> 41
 <211> 422
 <212> DNA
 <213> rattus norvegicus

<400> 41
 tacgggagct gatttttacg aacattacct ggcaggggaa atttgataag tatccactgt 60
 ggggtggcagc tacctggtaa aagacaaacc ccgtgtgaaa aggccctgga ctttttgga

120
 acacaacgaa accggccacg tgaatggcat ccggtcttat gtggacttca atgttttcaa

180
 cggggacagc acagattttg ccgaactatt aatgaaataa tgcagaattt cgcttttcaa

240
 ataagcccat ggatcctgac gtaaaatatt tcctgctggt gatcgtgcag tccatttcga

300
 tgctcactact ttggctgatg ctcaacatga cctttgggat ctattttaat ttgctttcc

360
 ccgacaatgg tttgacgctt ggcaacatca ttattacct cttcctgctg ggcagctcgg

420
 ca

422

<210> 42
 <211> 304
 <212> DNA
 <213> rattus norvegicus

<220>
 <221> unsure
 <222> 2, 7, 71, 80, 87, 88, 92, 97, 98, 99, 103, 109, 110, 130,
 133, 141, 147, 150, 159, 162, 165, 169, 172, 174, 179, 182
 <223> c, t, a or g

<221> unsure
 <222> 184, 190, 194, 195, 200, 202, 207, 209
 <223> c, t, a or g

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<221> misc_feature

<222> (1)...(304)

<223> n = A,T,C or G

<400> 42

tncatangcc ctgaggtggg gacgaagccc gagtccgtcc tgacatgttt ccagtggaaa 60
agattttgtt ntgagcgtnn ctttctnnnt tnttttnnnt tgnttgtnn atgtttttgt

120

tgttgttttn ttnaaactgt ntgttgncan ttcaacatna anggnaggna antntgtgnc

180

tncnttgcan tgnncatgn tncccananc ccaaaaaaaaa aaaaaaaaaa aaaaagagta

240

caaatatcac aaaatttgac atttttgtaa taatactttg gttgttgttt ggtgacggcg

300

attg

304

NY02:364000.1

NY02:364000.1